CLASSIFIED MESSAGE

SECRET

ROUTING

1	OB	5	outs
2	ChIOB	6	Fin Asst. Ch
3			

DATE : 1930Z 26 OCT 60

TO 25X1A

FROM

ACTION: DPD (1,2,3,4,5,6,7,8,9,10)

INFO : S/C (11)

CIRCULATE	INITIAL
X-REF	
FILE	

ROUTINW

25X1A

EG

TOR: 2014Z 26 OCT 60

25X1A IN 35390

TO INFO

330 NRO 25X1

25X1A

ATT:

25X1A REF: 120 (IN 31425) 177 (IN 35243)

1. TO OBTAIN MORE ACCURATE INFORMATION ON PAYLOAD CONSUMPTION, A DIGIPOT APPROACH SEEMS REASONABLE, HOWEVER, FCIC DOES NOT SHARE THE SAME CONFIDENCE IN THE SUGGESTED LOCATION OF INSTALLATION. SINCE THE SUPPLY METERING ROLLER IS A POSITIVE DRIVE OFF OF THE CAMERA MOTOR, IT IS AN UNRELIABLE INDICATION OF PAYLOAD CONSUMPTION. CAMERA MOTOR, AND THEREFORE, SUPPLY METERING CAN BE OPERATING IN THE ABSENCE OF PAYLOAD.

2. A MORE LOGICAL LOCATION FOR A FILM FOOTAGE TRANSDUCER WOULD BE IN THE CASSETTE PROPER. THIS WOULD, HOWEVER, NECESSITATE SOME CHANGES TO THE FILM HANDLING CHARACTERISTICS WHICH WOULD REQUIRE ADDITIONAL TESTING TO ASSURE RELIABILITY. SUCH AN APPROACH IS SOUND BUT REQUIRES A LITTLE TOO MUCH TIME AND EFFORT AND FOR THIS REASON IS NOT RECOMMENDED BY FCIC.

3. A SIMPLE AND UNCOMPLICATED APPROACH WOULD BE TO TELEMETER

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BACK THE TOTAL NUMBER OF SCAN CYCLES OF ACTUAL OPERATION. THIS SCAN SIGNAL NOW EXISTS AS A NORMAL TEST FUNCTION IN THE LAB BUT DOES NOT HAVE TELEMETERY CAPABILITIES. AS A SUGGESTED METHOD OF UTILIZING THIS FUNCTION, IT IS PROPOSED THAT THE SCAN PULSE SIGNAL DRIVE A DIGIPOT SUCH AS THE PHOTOCON UNIT WHICH WAS INVESTIGATED AS A REPLACEMENT FOR THE PRESENTLY USED DIGITOTE. KNOWING THE TOTAL NUMBER OF SCAN CYCLES, IT WOULD BE A SIMPLE MATTER TO DERIVE TOTAL FOOTAGE TO AN EXTREMELY HIGH DEGREE OF ACCURACY. SUCH AN APPROACH OFFERS SIMPLICITY IN THAT THE SCAN PULSE SIGNAL ALREADY EXISTS AND DOES NOT IN ANY WAY AFFECT FILM HANDLING CHARACTERISTICS. THE COUNT RATE REQUIREMENTS OF SUCH A SYSTEM IS NOT AT ALL DEMANDING OF TELEMETERY COMMUTATION IN THE COUNTER AND WOULD BE CONSIDERED A SIMPLE PROBLEM REQUIRING A MINIMUM OF ENGINEERING EFFORT.

4. THE SYSTEM SUCH AS PROPOSED IN PARA 3 WOULD REQUIRE

25X1A APPROXIMATELY 8 WEEKS TO IMPLEMENT AT A BUDGETARY ESTIMATE OF

[redacted] PER SYSTEM.

END OF MESSAGE